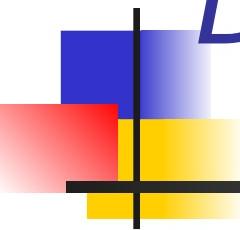


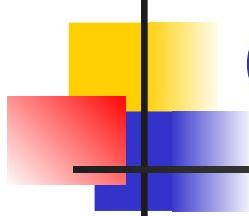
# *Rapid Courseware (CW) Generation using .Net Database Application*



5 October 2005

Presented By  
Larry Helms  
[Larry.d.helms@us.army.mil](mailto:Larry.d.helms@us.army.mil)

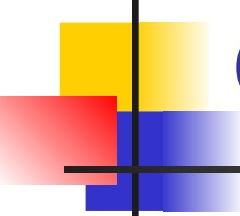
MANSCEN Lifelong Learning Center



# Our Agenda

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- Introducing .Net Database Development Process
- SCO Development Demonstration
- Questions

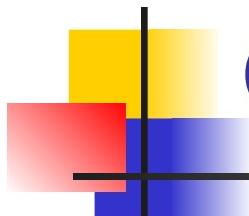


# Courseware Database

Instructional design output entered into a standardized database interface-

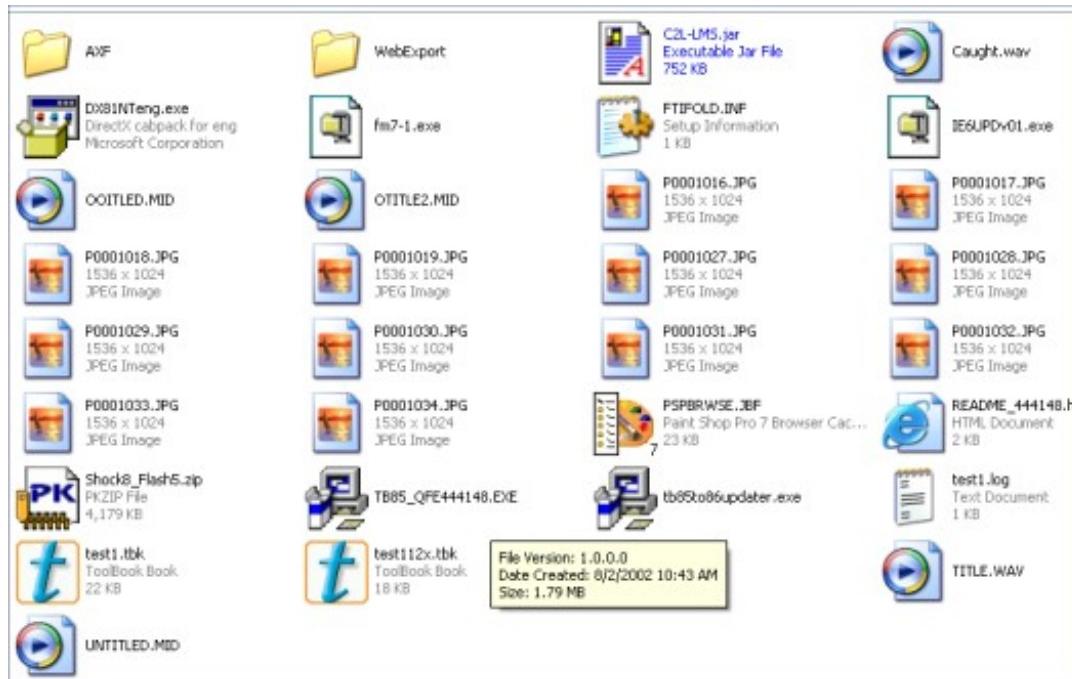
MANSCEWare D:\MANSCETraining\courses\engineer\Example06Aug\Example06Aug.mdb

File	Edit	Record	Language	Help
Page Type	Risk and Requirements			Sort By
Title	Introduction			Sub Heading
Instructions				Identifier
				21G10_C01_000_0
				Navigation Prompt
Initial Content*   Content (1-2)   Content (3-4)   Content (5-6)   Content (7-8)   Content (9-10)   Media   Question   Alerts				
Initial or first content on the page				
AR 385-10, Army Safety Program: Chapter 3, Safety Standards Application				
3-1. Standards, subparagraphs a, c, and e apply.				
a. Army workplaces are generally comparable to private sector workplaces. All standards established by DOL pursuant to sections 6 and 19 of Public Law 91-596 are adopted as Army standards and will be complied with in applicable Army workplaces.				
c. Commanders will apply OSHA and other non-DA regulatory or consensus safety and health standards to military unique equipment, systems, operations, or workplaces, in whole or in part, if practicable. When military design, specifications, or requirements render compliance infeasible, or when no regulatory or consensus standard exists for such military application, com				
Initial Image Type	Initial Image Filename	Initial Narration Filename		
Photo	environmental_safety.jpg			
Initial Image Description	Initial Narration Script			
Reference Instructions				



# Courseware Media Development

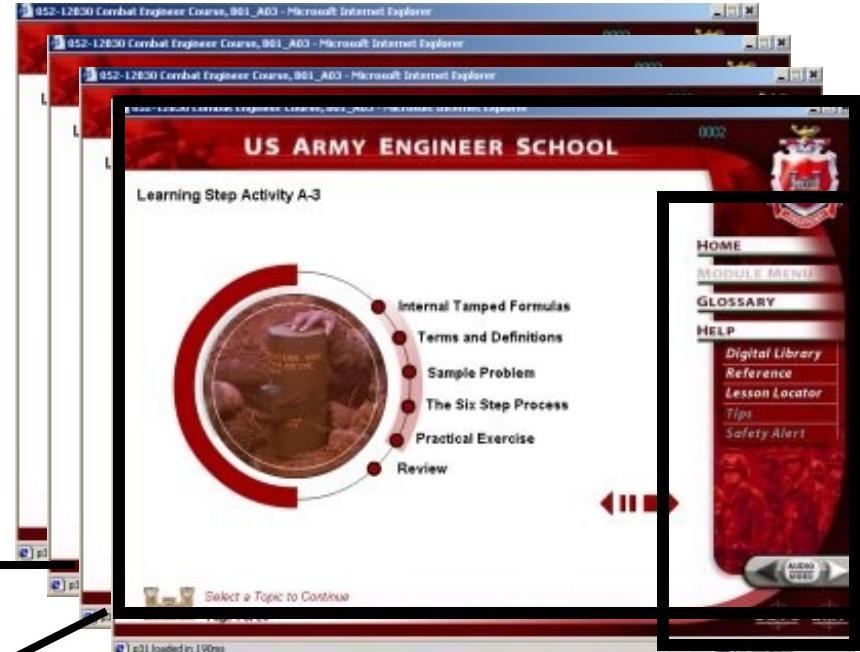
Media files saved in a common media folder-



# .Net Application Engine

Government Web Server  
Software Application that -

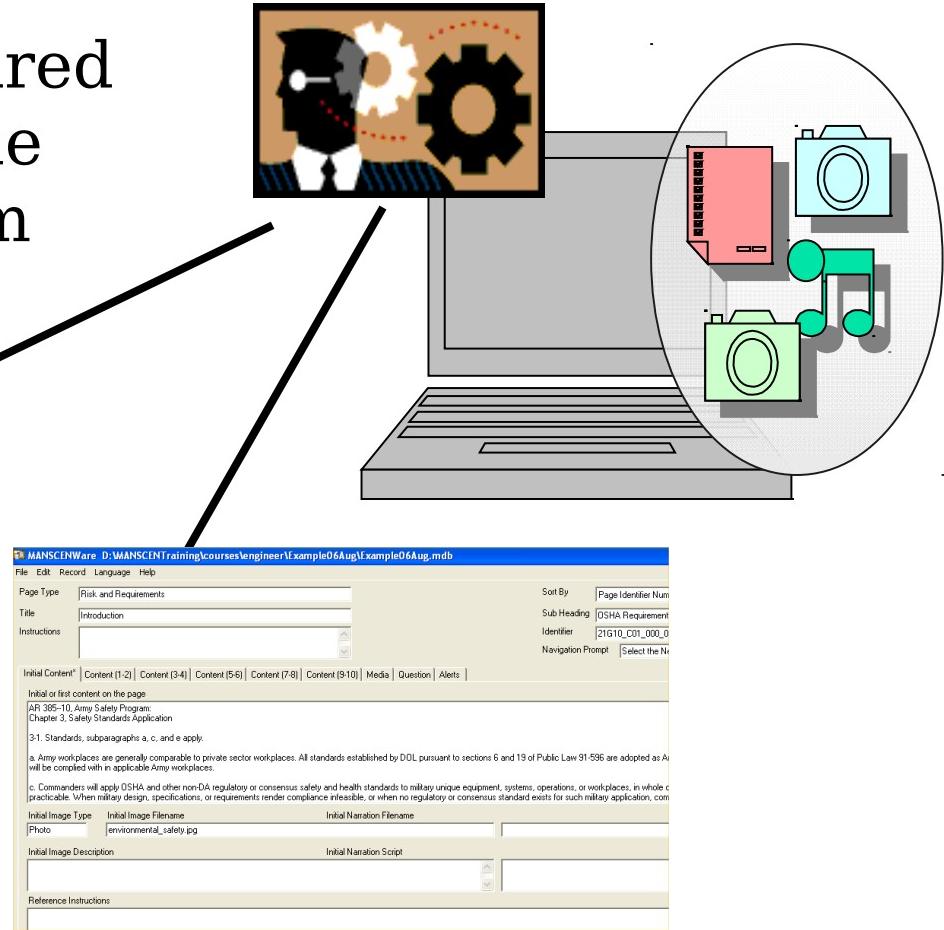
- Dynamically builds courseware screens viewed in a web browser
- Generates course content using scripted application templates database

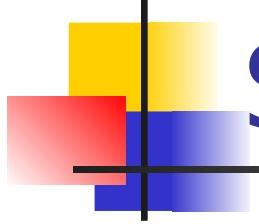


This screenshot shows a Microsoft Access database application window titled "MANSCINWare D:\MANSCIN\Training\Courses\Enginier\xample06\aug\xample06\aug.mdb". The form is titled "Risk and Requirements" and contains fields for "Title" (set to "Introduction") and "Instructions". Below these are sections for "Initial Content", "Initial Image Type", "Initial Image Description", and "Reference Instructions". A note at the bottom states: "AR 385-10, Army Safety Program: Chapter 3, Safety Standards Application. 31. Standards, subparagraphs a, c, and e apply. a. Army workplaces are generally comparable to private sector workplaces. All standards established by DOD pursuant to sections 6 and 19 of Public Law 91-596 are adopted as AR 385-10, Army Safety Program. b. Commanders will apply DSHA and other non-DA regulatory or consensus safety and health standards to military unique equipment, systems, operations, or workplaces, in whole or in part, when military design, specifications, or requirements render compliance infeasible, or where no regulatory or consensus standard exists for such military application. c. Commanders will apply DSHA and other non-DA regulatory or consensus safety and health standards to military unique equipment, systems, operations, or workplaces, in whole or in part, when military design, specifications, or requirements render compliance infeasible, or where no regulatory or consensus standard exists for such military application." There are also fields for "Sort By", "Page Identifier Num", "Sub Heading", "DSHA Requirement Identifier", and "Navigation Prompt".

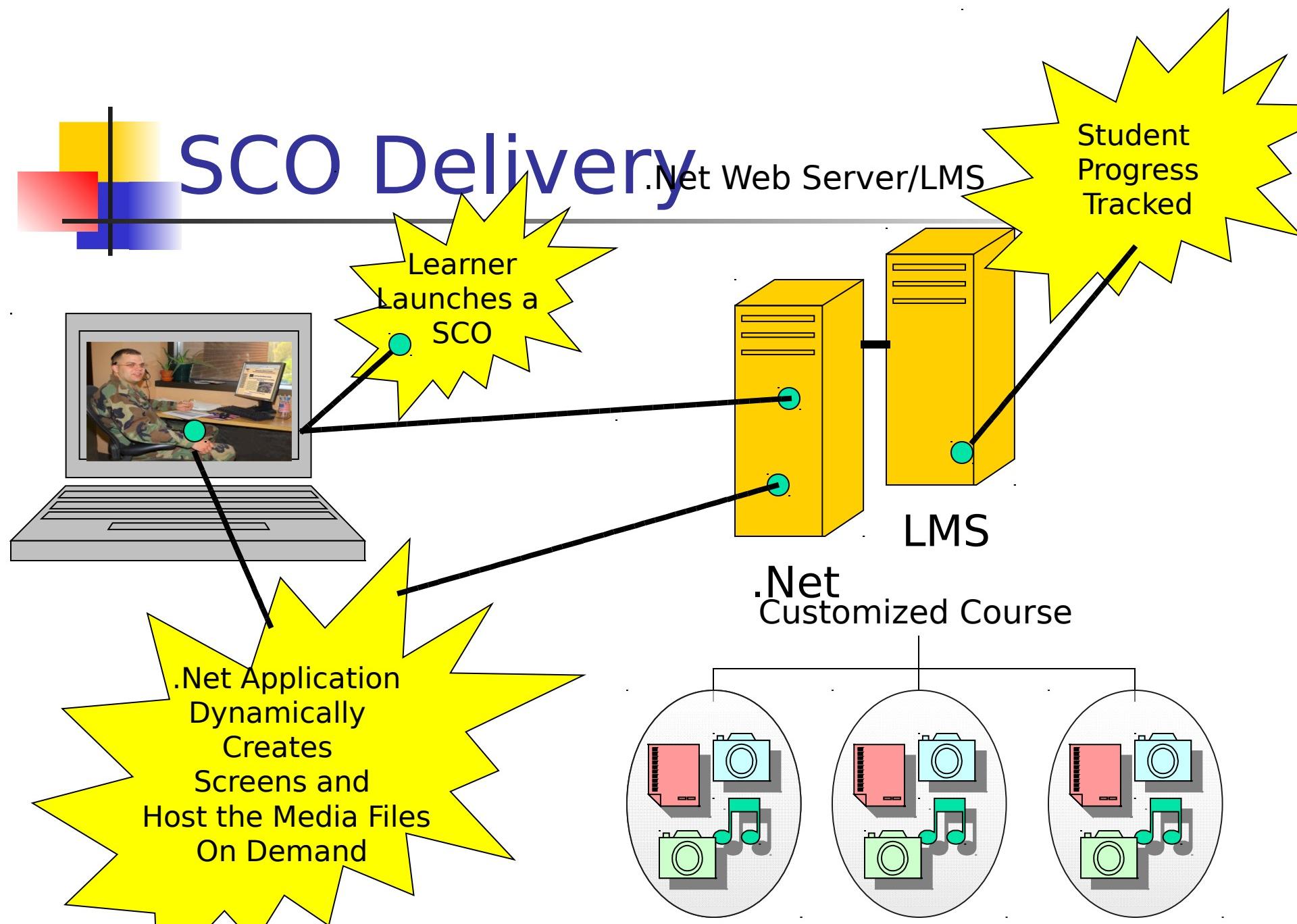
# .Net Application Engine

Media elements required to be played within the SCO are selected from the media folder as outlined from the





# SCO Delivery



# SCO Communications

SCORM-conformant

MANSCEN Samples - Microsoft Internet Expl...

File Edit View Favorites Tools Help

Back → Forward → Stop X Home Search

Address http://www-training.wood.e Go Links

Use SCORM:

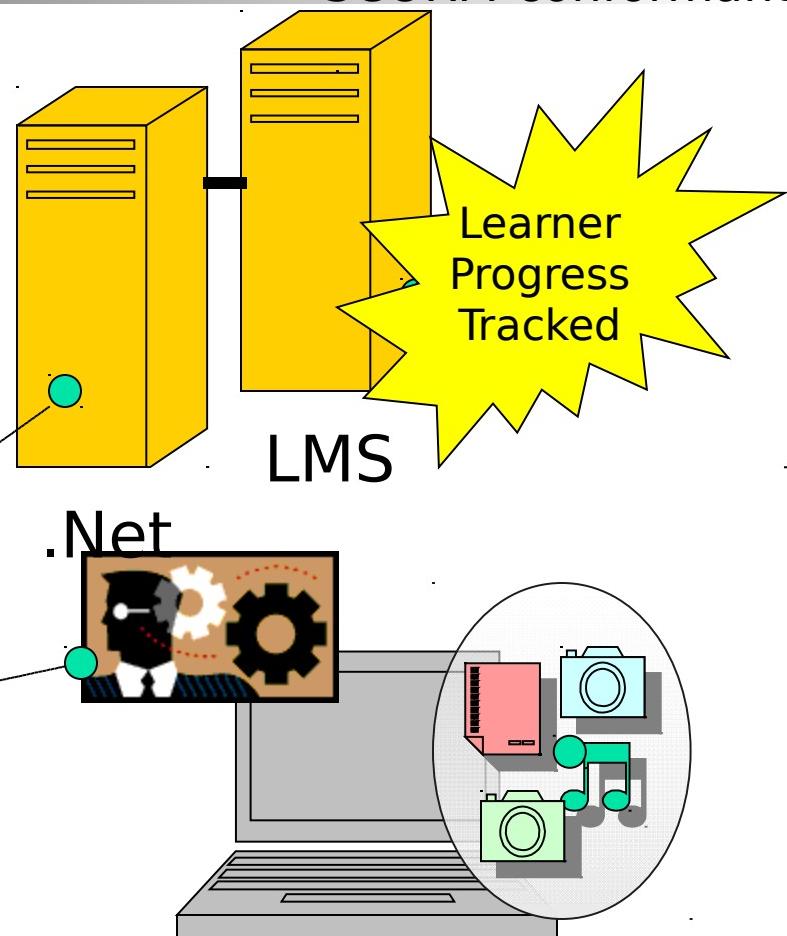
Content: Test Module

User Interface: engineer

Launch

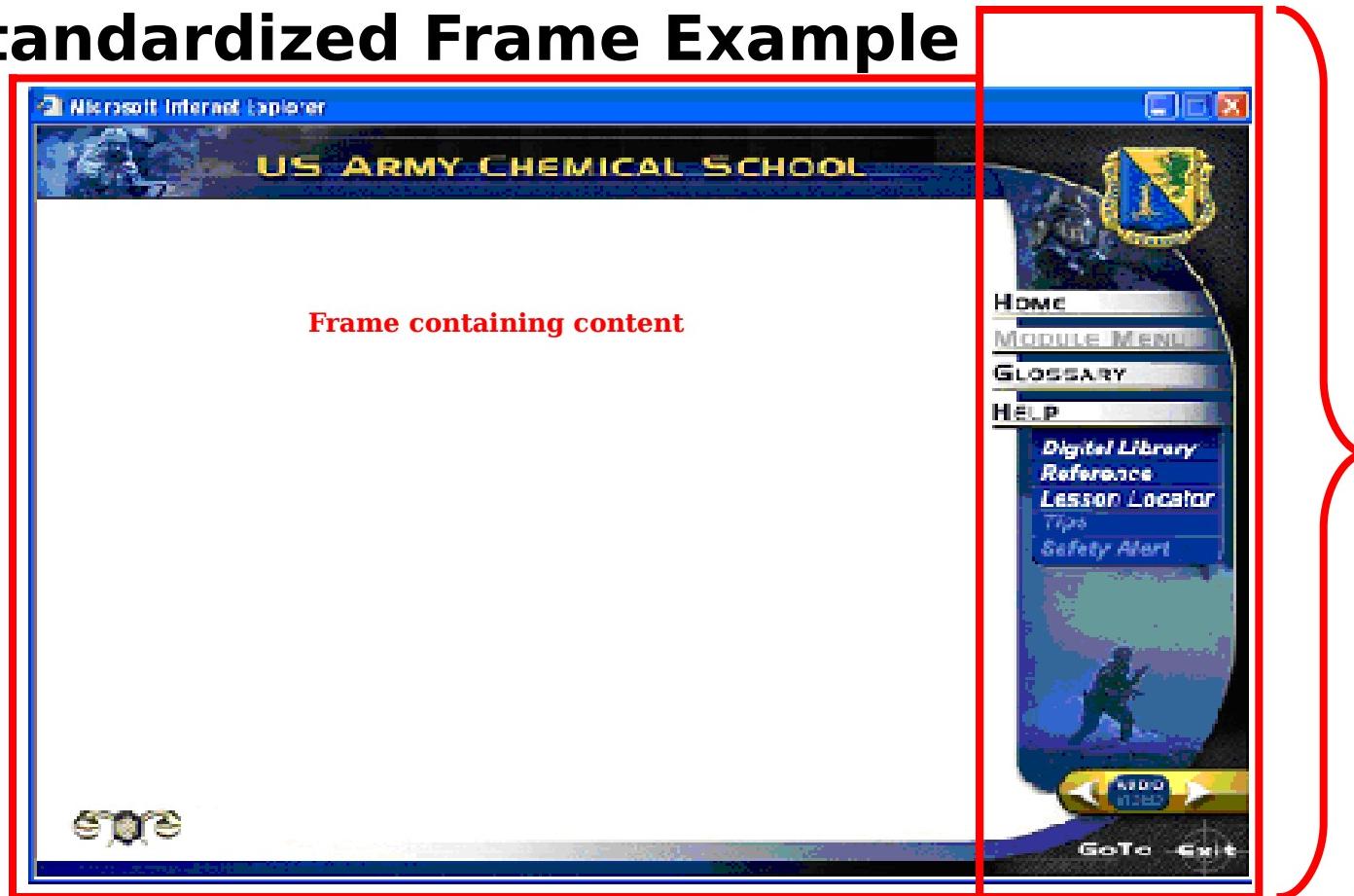
Clear Results

```
LMSInitialize  
LMSGetValue cmi.core.student_name  
LMSGetValue cmi.core.lesson_location  
LMSGetValue cmi.core.lesson_status  
LMSGetValue cmi.student_data.mastery_score  
LMSGetValue cmi.suspend_data  
LMSGetValue cmi.core.score.raw  
LMSSetValue cmi.core.session_time = 00:00:01.93  
LMSSetValue cmi.core.exit = logout
```



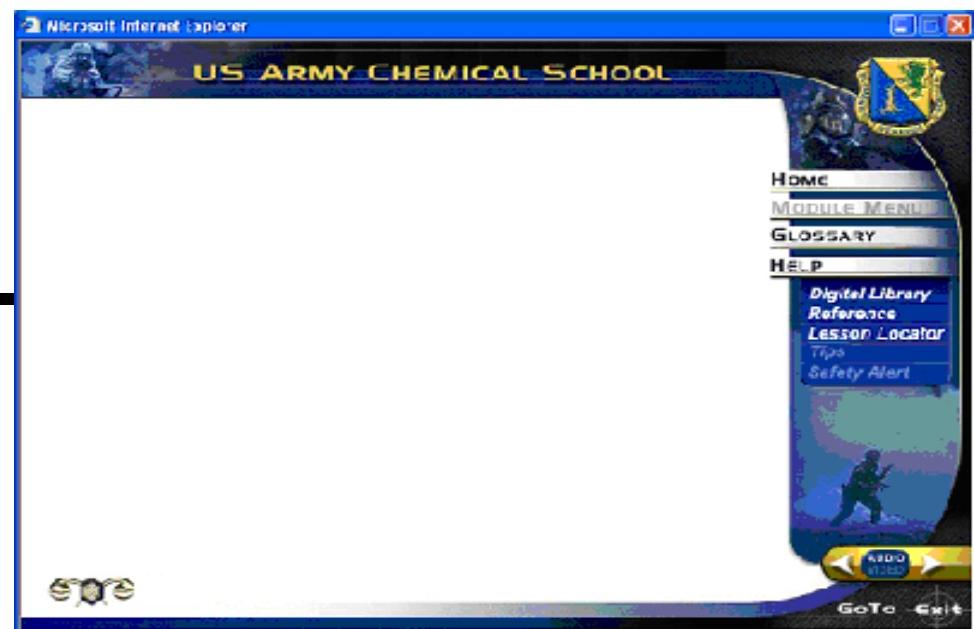
# SCOs User Interface

## Standardized Frame Example



# SCOs Fielding

## User Interface Frame Selection



# User Interface Examples

Macromedia Flash Player 6

File View Control Help

US ARMY TRAINING & DOCTRINE COMMAND



HOME  
MODULE MENU  
GLOSSARY  
HELP

Digital Library  
Reference  
Lesson Locator  
Job Aids/Tools  
Safety Alert

AUDIO VIDEO

Follow Me

HOME  
MODULE MENU  
GLOSSARY  
HELP

Digital Library  
Reference  
Lesson Locator  
Job Aids/Tools  
Safety Alert

AUDIO VIDEO

GoTo Exit

Macromedia Flash Player 6

File View Control Help

US ARMY INFANTRY SCHOOL



AUDIO VIDEO

HOME  
MODULE MENU  
GLOSSARY  
HELP

Digital Library  
Reference  
Lesson Locator  
Job Aids/Tools  
Safety Alert

AUDIO VIDEO

GoTo Exit

X

Microsoft Internet Explorer

US COAST GUARD



HOME  
MODULE MENU  
GLOSSARY  
HELP

IETM  
Reference  
Lesson Locator  
Job Aids/Tools  
Safety Alert

AUDIO VIDEO

Joint Effects Model

JEM

JOINT PROGRAM EXECUTIVE OFFICE S  
C H A R G E D  
C H E M I C A L  
A N D  
B I O L O G I C A L  
D E F E N S E

HOME  
MODULE MENU  
GLOSSARY  
HELP

Digital Library  
Reference  
Lesson Locator  
Job Aids/Tools  
Safety Alert

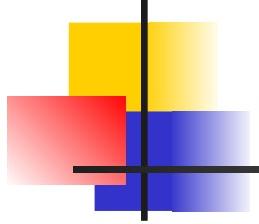
AUDIO VIDEO

GoTo Exit

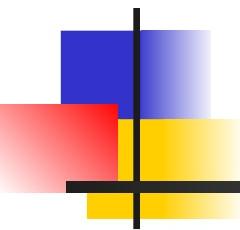
# .Net Application Demonstration

<http://www-training.wood.army.mil/MANSCENTraining/start>

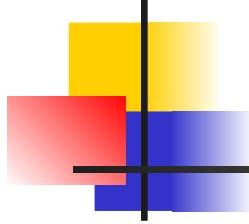




# .Net Application Benefits



# Questions/Discussion?



**Mr. Larry Helms - Chief  
MANSCEN Lifelong Learning  
Center  
ATZT-L-LLC  
Fort Leonard Wood, MO 65473-  
8929**

**DSN 676-4136  
COM 573.563.4136**

**E-mail:  
[larry.d.helms@us.army.mil](mailto:larry.d.helms@us.army.mil)**

